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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 5817-7L	APPLICATION NO. Not Yet Assigned
		APPLICANT Harrington et al.	
		FILING DATE Concurrently Herewith	GROUP Not Yet Assigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
RF	AA2	5,707,830	01/13/1998	Calos	435	69.1	04/02/1997
	AB2	5,728,551	03/17/1998	Devine et al.	435	91.41	03/02/1995
	AC2	5,733,746	03/31/1998	Treco et al.	435	69.6	03/17/1995
	AD2	5,733,761	03/31/1998	Treco et al.	435	172.3	05/26/1995
	AE2	5,783,385	07/21/1998	Treco et al.	435	6	09/06/1994
	AF2	5,789,215	08/04/1998	Berns et al.	435	172.3	08/07/1997
RF	AG2	5,830,698	11/03/1998	Reff et al.	435	69.1	03/14/1997
	AH2	5,843,772	12/01/1998	Devine et al.	435	320.1	06/10/1996
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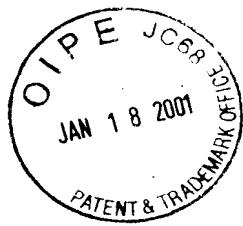
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RF	AL2	WO 93/09222	05/13/1993	WIPO			Yes No
	AM2	WO 94/12650	06/09/1994	WIPO			Yes No
	AN2	AU 71893/94	06/30/1994	Australia			Yes No
	AO2	FR 2 707 091	01/06/1995	France			Yes No
RF	AP2	WO 95/31560	11/23/1995	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RF	AR	2	Barker, C.S., et al., "Activation of the ProLactin Receptor Gene by Promoter Insertion in a Moloney Murine Leukemia Virus-Induced Rat Thymoma," J. Virol. 66(11):6763-6768 (1992).
	AS	2	Black, A.C., et al., "HTLV-II Rex Binding and Activity Requires an Intact Splice Donor Site and a Specific RNA Secondary Structure," AIDS Res. & Human Retroviruses 8:870 (1992).
RF	AT	2	Brikun, I., et al., "Analysis of CRP-CytR Interactions at the Escherichia coli uid Promoter," J. Bacteriology 178(6):1614-1622 (March 1996).

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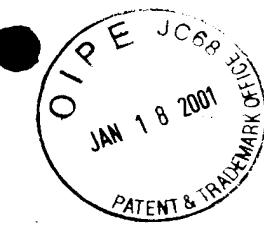
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R.P.	AL3	WO 96/04391	02/15/1996	WIPO			Yes No
	AM3	WO 96/29411	09/26/1996	WIPO			Yes No
	AN3	EP 0 742 285 A1	11/13/1996	Europe			Yes No
	A03	WO 98/14614 A1	04/09/1998	WIPO			Yes No
R.P.	AP3	WO 99/07389 A1	02/18/1999	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

R.P.	AR	3	Buckler, A.J., et al., "Exon amplification: A strategy to isolate mammalian genes based on RNA splicing," Proc. Natl. Acad. Sci. USA 88:4005-4009 (1991).
	AS	3	Butturini, A., et al., "Oncogenes in Human Leukemias," Acta Haematologica 78(suppl. 1):2-10 (1987).
R.P.	AT	3	Butturini, A., and Gale, R.P., "Oncogenes and Human Leukemias," Int'l. J. Cell Cloning 6(1):2-24 (1988).

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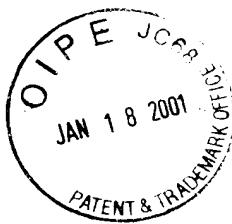
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RLS	AR	4	Chakraborty, A.K., et al., "Transforming function of proto-ras genes depends on heterologous promoters and is enhanced by specific point mutations," Proc. Natl. Acad. Sci. USA 88:2217-2221 (1991).
	AS	4	Chang, W., et al., "Enrichment of Insertional Mutants Following Retrovirus Gene Trap Selection," Virol. 193:737-747 (1993).
RLS	AT	4	Chow, W.-Y., and Berg, D.E., "Tn5tac1, a derivative of transposon Tn5 that generates conditional mutations," Proc. Natl. Acad. Sci. USA 85:6468-6472 (1988).

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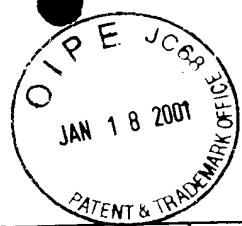
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RCS	AR	S	Church, D.M., et al., "Isolation of genes from complex sources of mammalian genomic DNA using exon amplification," <i>Nature Genetics</i> 6:98-105 (1994).
	AS	S	Crabb, B.S., and Cowman, A.F., "Characterization of promoters and stable transfection by homologous and nonhomologous recombination in <i>Plasmodium falciparum</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 93:7289-7294 (July 1996).
AT	AT	S	Datson, N.A., et al., "Specific isolation of 3'-terminal exons of human genes by exon trapping," <i>Nucl. Acids Res.</i> 22(20):4148-4153 (1994).

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RPS	AR	6	Datson, N.A., et al., "Scanning for genes in large genomic regions: cosmid-based exon trapping of multiple exons in a single product," <i>Nucl. Acids Res.</i> 24:1105-1111 (March 1996).
	AS	6	De Benedetti, A., and Rhoads, R.E., "A novel BK virus-based episomal vector for expression of foreign genes in mammalian cells," <i>Nucl. Acids Res.</i> 19:1925-1931 (1991).
V.A.	AT	6	Dickson, C., et al., "Tumorigenesis by Mouse Mammary Tumor Virus: Proviral Activation of a Cellular Gene in the Common Integration Region int-2," <i>Cell</i> 37:529-536 (1984).

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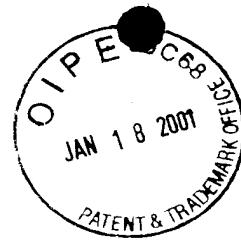
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
KHS	AR	7	Dostatni, N., et al., "Use of Retroviral Vectors for Mapping of Splice Sites in Cottontail Rabbit Papillomavirus," J. Gen. Virol. 69:3093-3100 (1988).				
	AS	7	Duesberg, P.H., et al., "Cancer Genes by Non-Homologous Recombination," In: <i>Boundaries between Promotion and Progression during Carcinogenesis</i> , Sudilovsky, O., et al., eds., Plenum Press, New York, NY, pp. 197-211 (1991).				
RHS	AT	7	Duyk, G.M., et al., "Exon trapping: A genetic screen to identify candidate transcribed sequences in cloned mammalian genomic DNA," Proc. Natl. Acad. Sci. USA 87:8995-8999 (1990).				
EXAMINER <i>KHS</i>					DATE CONSIDERED 4/18/01		
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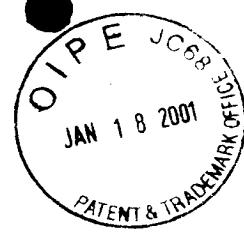
RPS	AR	8	Frankel, W., et al., "Retroviral insertional mutagenesis of a target allele in a heterozygous murine cell line," Proc. Natl. Acad. Sci. USA 82:6600-6604 (1985).
	AS	8	Fujisawa, J.-I., et al., "Functional activation of the long terminal repeat of human T-cell leukemia virus type I by a trans-acting factor," Proc. Natl. Acad. Sci. USA 82:2277-2281 (1985).
RPS	AT	8	Fung, Y.-K.T., et al., "Activation of the Cellular Oncogene c-erbB by LTR Insertion: Molecular Basis for Induction of Erythroblastosis by Avian Leukosis Virus," Cell 33:357-368 (1983).

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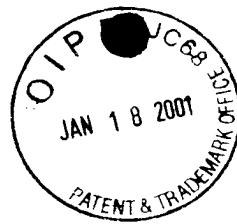
2/25	AR	9	Goff, S.P., "Gene Isolation by Retroviral Tagging," <i>Meth. Enzymology</i> 152:469-481 (1987).
	AS	9	Hayward, W.S., et al., "Activation of a cellular onc gene by promoter insertion in ALV-induced lymphoid leukosis," <i>Nature</i> 290:475-480 (1981).
2/25	AT	9	Jackson, I.J., "A reappraisal of non-consensus mRNA splice sites," <i>Nucl. Acids Res.</i> 19(14):3795-3798 (1991).

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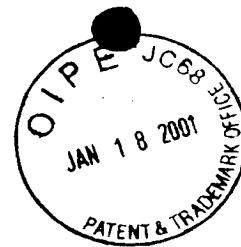
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
11/15	AR	10	Joshi, S., "A Putative Approach for Cloning 'Silent' Genes Using Retroviral Vectors," <i>Med. Hypoth.</i> 36:242-245 (1991).				
	AS	10	Joyner, A.L., "Gene Targeting and Gene Trap Screens Using Embryonic Stem Cells: New Approaches to Mammalian Development," <i>BioEssays</i> 13:649-656 (1991).				
11/15	AT	10	Junejo, F., et al., "Sequence analysis of the herpes simplex virus type 1 strain 17 variants 1704, 1705 and 1706 with respect to their origin and effect on the latency-associated transcript sequence," <i>J. Gen. Virol.</i> 72:2311-2315 (1991).				

EXAMINER	RJS	DATE CONSIDERED	RJS
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AO						Yes No
AP						Yes No

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AR	11	King, W., et al., "Insertion Mutagenesis of Embryonal Carcinoma Cells by Retroviruses," <i>Science</i> 228:554-558 (1985).
AS	11	Kreissig, S., et al., "Expression of peptides encoded by exons in cloned mammalian DNA," <i>Nucl. Acids Res.</i> 24:4358-4359 (November 1996).
AT	11	Lemay, G., and Jolicoeur, P., "Rearrangement of a DNA sequence homologous to a cell-virus junction fragment in several Moloney murine leukemia virus-induced rat thymomas," <i>Proc. Natl. Acad. Sci. USA</i> 81:38-42 (1984).

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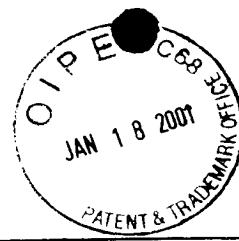
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RR	AR	12	Liang, Y., et al., "Effects of Alternate RNA Splicing on Glucokinase Isoform Activities in the Pancreatic Islet, Liver, and Pituitary," <i>J. Biol. Chem.</i> 266(11):6999-7007 (1991).
	AS	12	Lih, C.-J., et al., "Rapid identification and isolation of transcriptionally active regions from mouse genomes," <i>Gene</i> 164:289-294 (1995).
RR	AT	12	Liu, Z., et al., "The E6 Gene of Human Papillomavirus Type 16 Is Sufficient for Transformation of Baby Rat Kidney Cells in Cotransfection with Activated Ha-ras," <i>Virology</i> 201:388-396 (1994).

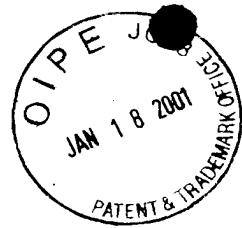
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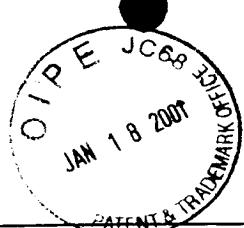
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	AM						Yes No	
	AN						Yes No	
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	AP						Yes No	
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)								
RJS	AR	13	Mölders, H., et al., "Integration of transfected LTR sequences into the c-raf proto-oncogene: activation by promoter insertion," <i>EMBO J.</i> 4(3):693-698 (1985).					
	AS	13	Moore, R., et al.. "Sequence, topography and protein coding potential of mouse int-2: a putative oncogene activated by mouse mammary tumour virus," <i>EMBO J.</i> 5(5):919-924 (1986).					
RJS	AT	13	Müller, R., and Müller, D., "Co-transfection of normal NIH/3T3 DNA and retroviral LTR sequences: a novel strategy for the detection of potential c-ONC genes," <i>EMBO J.</i> 3(5):1121-1127 (1984).					
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1215	AR	14	Muth, K., et al., "Disruption of Genes Regulated During Hematopoietic Differentiation of Mouse Embryonic Stem Cells," <i>Develop. Dynamics</i> 212:277-283 (June 1998).				
	AS	14	Neel, B.G., et al., "Molecular Analysis of the c-myc Locus in Normal Tissue and in Avian Leukosis Virus-Induced Lymphomas," <i>J. Virol.</i> 44(1):158-166 (1982).				
1217	AT	14	Nicolas, J.-F., and Rubenstein, J.L.R., "Retroviral Vectors," In: <i>Vectors: A Survey of Molecular Cloning Vectors and Their Uses</i> , Rodriguez, R.L., et al., eds., Butterworths Publs., Stoneham, MA, pp. 493-513 (1988).				
EXAMINER RMS				DATE CONSIDERED 4/15/01			
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U.S. PATENT DOCUMENTS

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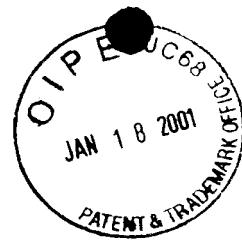
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AM							Yes No
AN							Yes No
AO							Yes No
AP							Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

R. V.	AR	15	Nilsen, T.W., et al., "c-erbB Activation in ALV-Induced Erythroblastosis: Novel RNA Processing and Promoter Insertion Result in Expression of an Amino-Truncated EGF Receptor," <i>Cell</i> 41:719-726 (1985).
	AS	15	Niwa, H., et al., "An Efficient Gene-Trap Method Using Poly A Trap Vectors and Characterization of Gene-Trap Events," <i>J. Biochem.</i> 113:343-349 (1993).
V. S. L.	AT	15	Nottenburg, C., and Varmus, H.E., "Features of the Chicken c-myc Gene That Influence the Structure of c-myc RNA in Normal Cells and Bursal Lymphomas," <i>Mol. Cell. Biol.</i> 6(8):2800-2806 (1986).

EXAMINER	R. V.	4/18/01	DATE CONSIDERED
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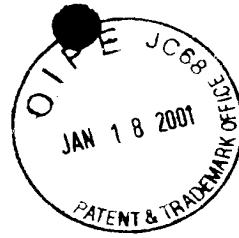
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AM							Yes No
AN							Yes No
AO							Yes No
AP							Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>P.S.</i>	AR	<u>16</u>	Nouvel, P., "The mammalian genome shaping activity of reverse transcriptase," <i>Genetica</i> 93:191-201 (1994).
<i>P.S.</i>	AS	<u>16</u>	Nusse, R., "The activation of cellular oncogenes by retroviral insertion," <i>Trends in Genetics</i> 2:244-247 (1986).
<i>P.S.</i>	AT	<u>16</u>	Nusse, R., and Berns, A., "Cellular Oncogene Activation by Insertion of Retroviral DNA; Genes Identified by Proivirus Tagging," In: <i>Cellular Oncogenes Activation</i> , Klein, G., ed., Marcel Dekker, Inc., New York, NY, pp. 95-119 (1988).

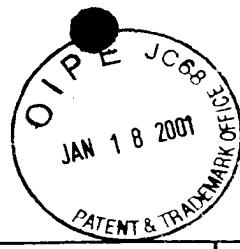
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
RP	AR	17	Payne, G.S., et al., "Multiple arrangements of viral DNA and an activated host oncogene in bursal lymphomas," <i>Nature</i> 295:209-215 (1982).				
	AS	17	Peters, G., et al., "Tumorigenesis by Mouse Mammary Tumor Virus: Evidence for a Common Region for Provirus Integration in Mammary Tumors," <i>Cell</i> 33:369-377 (1983).				
RP	AT	17	Petitclerc, D., et al., "The effect of various introns and transcription terminators on the efficiency of expression vectors in various cultured cell lines and in the mammary gland of transgenic mice," <i>J. Biotechnol.</i> 40:169-178 (1995).				
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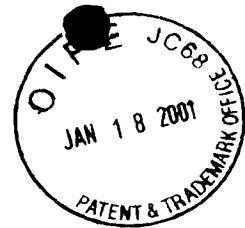
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AO							No
AP							Yes
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>RPS</i>	AR	18	Reinhart, T.A., et al., "RNA Splice Site Utilization by Simian Immunodeficiency Viruses Derived from Sooty Mangabey Monkeys," <i>Virology</i> 224:338-344 (October 1, 1996).
	AS	18	Robinson, W.S., "Molecular Events in the Pathogenesis of Hepadnavirus-Associated Hepatocellular Carcinoma," <i>Annu. Rev. Med.</i> 45:297-323 (1994).
<i>RPS</i>	AT	18	Salminen, M., et al., "Efficient Poly A Trap Approach Allows the Capture of Genes Specifically Active in Differentiated Embryonic Stem Cells and in Mouse Embryos," <i>Develop. Dynamics</i> 212:326-333 (June 1998).

EXAMINER *RPS* DATE CONSIDERED *4/1/98*

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>PPS</i>	AR	<u>19</u>	Segal, D., et al., "Genetic Transformation of <i>Drosophila</i> Cells in Culture by P Element-Mediated Transposition," <i>Somatic Cell and Mol. Genetics</i> 22(2):159-165 (March 1996).				
	AS	<u>19</u>	Shen-Ong, G.L.C., et al., "Activation of the c-myb Locus by Viral Insertional Mutagenesis in Plasmacytoid Lymphosarcomas," <i>Science</i> 226:1077-1080 (1984).				
<i>PPS</i>	AT	<u>19</u>	Shen-Ong, G.L.C., et al., "Two Modes of c-myb Activation in Virus-Induced Mouse Myeloid Tumors," <i>Mol. Cell. Biol.</i> 6(2):380-392 (1986).				
EXAMINER				<i>PPS</i>		DATE CONSIDERED <i>4/13/01</i>	
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AN							Yes No
AO							Yes No
AP							Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>RECS</i>	AR	<u>20</u>	Shin, S., and Steffen, D.L., "Frequent activation of the <i>Ick</i> gene by promoter insertion and aberrant splicing in murine leukemia virus-induced rat lymphomas," <i>Oncogene</i> 8:141-149 (1993).				
	AS	<u>20</u>	Simpson, K., et al., "Stable Episomal Maintenance of Yeast Artificial Chromosomes in Human Cells," <i>Mol. Cell. Biol.</i> 16:5117-5126 (September 1996).				
<i>RECS</i>	AT	<u>20</u>	Stary, A., and Sarasin, A., "Simian virus 40 (SV40) large T antigen-dependent amplification of an Epstein-Barr virus-SV40 hybrid shuttle vector integrated into the human HeLa cell genome," <i>J. Gen. Virol.</i> 73:1679-1685 (1992).				
EXAMINER <i>RPS</i>					DATE CONSIDERED <i>6/18/01</i>		
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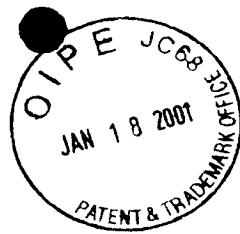
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AM							Yes No
AN							Yes No
AO							Yes No
AP							Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

PPS	AR	21	Steffen, D., "Proviruses are adjacent to c-myc in some murine leukemia virus-induced lymphomas," Proc. Natl. Acad. Sci. USA 81:2097-2101 (1984).
	AS	21	Sun, T.-Q., et al., "Human artificial episomal chromosomes for cloning large DNA fragments in human cells," Nature Genetics 8:33-41 (1994).
PPS	AT	21	Takami, Y., et al., "Cloning and Characterization of Human Papillomavirus Type 52 From Cervical Carcinoma in Indonesia," Int. J. Cancer 48:516-522 (1991).

EXAMINER	PPS	DATE CONSIDERED	4/15/11
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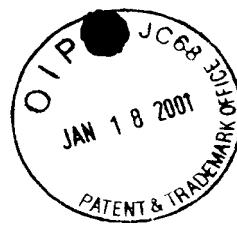
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>22</u>	Tashiro, S., et al., "Identification of illegitimate recombination hot spot of the retinoic acid receptor alpha gene involved in 15;17 chromosomal translocation of acute promyelocytic leukemia," <i>Oncogene</i> 9:1939-1945 (1994).
AS	<u>22</u>	Tsichlis, P.N., et al., "A common region for proviral DNA integration in MolmLV-induced rat thymic lymphomas," <i>Nature</i> 302:445-449 (1983).
AT	<u>22</u>	Unger, R.E., et al., "Simian Immunodeficiency Virus (SIVmac) Exhibits Complex Splicing for tat, rev, and env mRNA," <i>Virology</i> 182:177-185 (1991).

EXAMINER *RPR* DATE CONSIDERED *4/18/01*

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AN							Yes No
AO							Yes No
AP							Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>RCS</i>	AR	<u>23</u>	van Ooyen, A., and Nusse, R., "Structure and Nucleotide Sequence of the Putative Mammary Oncogene <i>int-1</i> ; Proviral Insertions Leave the Protein-Encoding Domain Intact," <i>Cell</i> 39:233-240 (1984).
<i>RCS</i>	AS	<u>23</u>	Voss, A.K., et al., "Efficiency Assessment of the Gene Trap Approach," <i>Develop. Dynamics</i> 212:171-180 (June 1998).
<i>RCS</i>	AT	<u>23</u>	Westphal, E.M., et al., "A System for Shuttling 200-kb BAC/PAC Clones into Human Cells: Stable Extrachromosomal Persistence and Long-Term Ectopic Gene Activation," <i>Human Gene Ther.</i> 9:1863-1873 (September 1998).

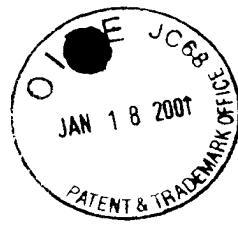
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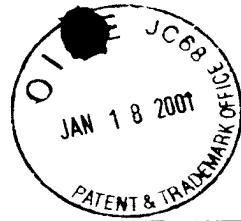
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AN							Yes No
AO							Yes No
AP							Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RPS	AR	24	Xiong, J.-W., et al., "Large-Scale Screening for Developmental Genes in Embryonic Stem Cells and Embryoid Bodies Using Retroviral Entrapment Vectors," <i>Develop. Dynamics</i> 212:181-197 (June 1998).
	AS	24	Zhou, H., and Duesberg, P.H., "A retroviral promoter is sufficient to convert proto-SRC to a transforming gene that is distinct from the SRC gene of Rous sarcoma virus," <i>Proc. Natl. Acad. Sci. USA</i> 87:9128-9132 (1990).
RPS	AT	24	Dialog File 351, Derwent WPI English language abstract for FR 2 707 091.

EXAMINER	RPS	DATE CONSIDERED
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AO							Yes No
AP							Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RP	AR	25	Drug Discovery News, "Lexicon Genetics, Inc.,* Genetic Engin. News 19:35 (March 1999).
	AS		
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